

**10/581293**

**IN RE: PATENT APPLICATION NO. 10/581293  
1 JUN 2006**

Docket No.: 12810-00252-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Thomas Ehrhardt et al.

Application No.: National Phase of  
PCT/EP2004/013555

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: CLP-PROTEASE AS TARGET FOR  
HERBICIDES

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

Of the documents listed on the attached SB/08 are the documents cited in an International Search Report during the prosecution of international application no. PCT/EP2004/013555, which corresponds to the above referenced application. In accordance with 37 CFR 1.97(b)(2), Applicants hereby submit these documents for the Examiner's consideration. A copy of each document required under 37 CFR 1.98(a)(2) is enclosed.

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In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

Applicants believe no fee is due with this response. However, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 12810-00252-US from which the undersigned is authorized to draw.

Respectfully submitted,

By 

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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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				Application Number	National Phase of PCT/EP2004/013555
				Filing Date	Concurrently Herewith 10/581293
				First Named Inventor	Thomas Ehrhardt
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	12810-00252-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	BA	WO-03/008440 A2	01-30-2003	Syngenta Participations AG		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	HEINE, Harold W., et al., "The Isomerization of Aziridine Derivatives. VI. The Rearrangement of Some 2-(1-Aziridinyl)quinoxalines", Journal of Organic Chemistry 27 (1962), pp. 2943-2944.	
	CB	"Methanimidamide, N'-[5-[1-cyano-2-(4-methoxyphenyl)ethenyl]-1,3,4-thiadiazol-2-yl]-N,N-dimethyl- (9CI)", Database Registry, Accession No. RN-338775-59-0, 05/21/2001.	
	CC	NAKABAYASHI, K., et al., "Arabidopsis thaliana mRNA for nClpP5 (nuclear encoded ClpP5), complete cds.", Database EMBL, Accession No. AB022330, 07/04/1999.	
	CD	NAKABAYASHI, K., et al., "NCLPP5 (F2J10.14 protein) (AT1G49970/F2J10_5)", Database UniProt, Accession No. Q9XJ35, 11/01/1999.	
	CE	SEKI, M., et al., "Arabidopsis thaliana At5g23140 mRNA for putative ATP-dependent protease proteolytic subunit ClpP, complete cds. clone: RAFL19-75-E09", Database EMBL, Accession No. AK118523, 12/13/2002.	
	CF	KOTANI, H., et al., "ATP-dependent protease proteolytic subunit ClpP-like protein (At5g23140)", Database Uniprot, Accession No. Q9FN42, 03/01/2001.	
	CG	NAKABAYASHI, K., et al., "Arabidopsis thaliana mRNA for nClpP2 (nuclear encoded ClpP2), complete cds.", Database EMBL, Accession No. AB022327, 07/04/1999.	
	CH	NAKABAYASHI, K., et al., "NCLPP2 (F5O11.13)(Similar to nClpP2 dbj BAA82066.1)", Database Uniprot, Accession No. Q9XJ36, 11/01/1999.	
	CI	ADAM, ZACH, et al., "Chloroplast and Mitochondrial Proteases in Arabidopsis. A Proposed Nomenclature", Plant Physiology 125 (2001), pp. 1912-1918.	
	CJ	CLARKE, ADRIAN K., et al., "Inactivation of the clpP1 Gene for the Proteolytic Subunit of the ATP-dependent Clp Protease in the Cyanobacterium Synechococcus Limits Growth and Light Acclimation", Plant Molecular Biology 37 (1998), pp. 791-801.	

Examiner Signature		Date Considered	
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				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	12810-00252-US

CK	HUANG, CHANGZHI, et al., "The <i>Chlamydomonas</i> Chloroplast <i>clpP</i> Gene Contains Translated Large Insertion Sequences and is Essential for Cell Growth", Mol Gen Genet 244 (1994), pp. 151-159.	
CL	KOTANI, HIROKAZU, et al., "Structure Analysis of <i>Arabidopsis thaliana</i> Chromosome 5. II. Sequence Features of the Regions of 1,044,062 bp Covered by Thirteen Physically Assigned P1 Clones", DNA Research 4 (1997), pp. 291-300.	
CM	NAKABAYASHI, KAZUMI, et al., "Identification of <i>clp</i> Genes Expressed in Senescing <i>Arabidopsis</i> Leaves", Plant Cell Physiol. 40(5)(1999), pp. 504-514.	
CN	MAJERAN, WOJCIECH, et al., "The Light Sensitivity of ATP synthase Mutants of <i>Chlamydomonas reinhardtii</i> ", Plant Physiology 126 (2001), pp. 421-433.	
CO	PORANKIEWICZ, JOANNA, et al., "New Insights into the ATP-dependent Clp protease: <i>Escherichia coli</i> and Beyond", Molecular Microbiology 32(3)(1999), pp. 449-458.	
CP	ERICKSON, ROBIN L., et al., "p300 Coactivates the Adipogenic Transcription Factor CCAAT/Enhancer-binding Protein $\alpha$ ", The Journal of Biological Chemistry, 276 (19)(2001), pp. 16348-16355.	
CQ	HALPERIN, TAMI, et al., "ATP-Dependent Association Between Subunits of Clp Protease in pea Chloroplasts", Planta 213 (2001), pp. 614-619.	
CR	SHIKANAI, TOSHIHARU, et al., "The Chloroplast <i>clpP</i> Gene, Encoding a Proteolytic Subunit of ATP-Dependent Protease, is Indispensable for Chloroplast Development in Tobacco", Plant Cell Physiol. 42 (3)(2001), pp. 264-273.	

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